

~~DIMMON SRC 13.4~~

13.5

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10 0000 ;*****
20 0000 ;
30 0000 ;   DISK MONITOR - DIMMON
40 0000 ;       VERSION 13.4
50 0000 ;
60 0000 ;   NOTE: MUST BE ASSEMBLED AFTER ASSEMBLING
70 0000 ;       DIMSYM SRC
80 0000 ;
90 0000 ;   COPYRIGHT 1978, 1979, 1980
100 0000 ;       HARRY J. SAAL AND LEONARD J. SHUSTEK
110 0000 ;
120 0000 ;
130 0000 ;*****
140 9042   *=PRBYTE
150 9042 4C469E   JMP WROB      EXTRN ENTRY
160 9045   *=PRWORD
170 9045 4C399E   JMP WROA      EXTRN ENTRY
180 904E   *=PRMSG
190 904E 4C47A1   JMP WRMSG     EXTRN ENTRY
200 9000   *=JMON
210 9000 4C4F9C   JMP CALLE     MAIN ENTRY POINT
220 9C23   *=ENDSYM
230 9C23 ;*****
240 9C23 ;
250 9C23 ;   COMMAND JUMP TABLE
260 9C23 ;
270 9C23 ;*****
280 9C23 3A      CMDS   .BYTE ':;PMGX'
280 9C24 3B
280 9C25 50
280 9C26 4D
280 9C27 47
280 9C28 58
290 9C29 4C      .BYTE 'LSDENVRO'
290 9C2A 53
290 9C2B 44
290 9C2C 45
290 9C2D 4E
290 9C2E 56
290 9C2F 52
290 9C30 4F
300 9C31 ;
310 9C31 9DE2   ADRS   .BYTE 'I'   ***NOT IN***
320 9C33 9DD5   .DBYTE ALTM-1
330 9C35 9D31   .DBYTE ALTR-1
340 9C37 9D4C   .DBYTE DSPLYR-1
350 9C39 9DF5   .DBYTE DSPLYM-1
360 9C3B 9E32   .DBYTE GO-1
370 9C3D 9EC9   .DBYTE EXIT-1
380 9C3F 9EC9   .DBYTE LDE-1
390 9C41 A1A8   .DBYTE LDE-1
400 9C43 9EC9   .DBYTE LDE-1
410 9C45 9EC9   .DBYTE LDE-1
420 9C47 9EC9   .DBYTE LDE-1
430 9C49 9EC9   .DBYTE LDE-1
440 9C4B A1B1   .DBYTE LDE-1
450 9C4D ;
460 9C4D BBA1   .DBYTE OUTP-1
470 9C4F A971   CALLE  .DBYTE GO-1   ***NOT IN***
480 9C51 8D1B02  .WORD END
490 9C54 A99C   LDA #BRKE*256/256   CALL ENTERS HERE
                       STA BRKVEC       SET UP BREAK VECTOR
                       LDA #BRKE/256

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AIDG
6 bytes over!

500	9C56	8D1C02		STA BRKVEC+1
510	9C59	A9FF		LDA #\$FF FORCE DISK INIT
520	9C5B	8D49AF		STA DSIDES+1 ON BOTH FLOPPIES
530	9C5E	8D4AAF		STA DSIDES+2
540	9C61	78		SEI TURN OFF INTS
550	9C62	A957		LDA #DINTRH*256/256 MAKE INTERRUPTS
560	9C64	8D1902		STA INTVEC GO TO COUNTDOWN
570	9C67	A990		LDA #DINTRH/256
580	9C69	8D1A02		STA INTVEC+1
590	9C6C	58		CLI PERMIT INTS AGAIN
600	9C6D	A900		LDA #0 SET ZERO IN FLAGS ON CALL
610	9C6F	F00B		BEQ B3
620	9C71	4A	BRKE	LSR A SET CY FOR PC CORRECTION
630	9C72	68		PLA
640	9C73	851E		STA YR
650	9C75	68		PLA
660	9C76	851D		STA XR
670	9C78	68		PLA
680	9C79	851C		STA ACC
690	9C7B	68		PLA
700	9C7C	D8	B3	CLD
710	9C7D	851B		STA FLGS
720	9C7F	68		PLA
730	9C80	69FF		ADC #\$FF CY WAS SET, CORRECT PC FOR BREAK
740	9C82	8519		STA PCL
750	9C84	68		PLA
760	9C85	69FF		ADC #\$FF
770	9C87	851A		STA PCH
780	9C89	BA		TSX
790	9C8A	861F		STX SP
800	9C8C	860E		STX TRUESP USED FOR ABORTS
810	9C8E	58		CLI CLEAR INTS.
820	9C8F	204890		JSR PRSTR
830	9C92	0D		.BYTE 13,18,'MONITOR',0
830	9C93	12		
830	9C94	4D		
830	9C95	4F		
830	9C96	4E		
830	9C97	49		
830	9C98	54		
830	9C99	4F		
830	9C9A	52		
830	9C9B	00		
840	9C9C	A60E	START	LDX TRUESP RESET STACK
850	9C9E	9A		TXS
860	9C9F	A900		LDA #0 READ NEXT CMD
870	9CA1	85CA		STA TXTPT
880	9CA3	850D		STA BRKF CLEAR BRK FLG
890	9CA5	850A		STA WRAP CLEAR ADR WRAP FLG
900	9CA7	201D9D		JSR CRLF
910	9CAA	20C09E	ST1	JSR RDOC GET 1RST CHAR
920	9CAD	C920		CMP #' IGNORE SPACES
930	9CAF	F0F9		BEQ ST1
940	9CB1	A20D	S0	LDX #ADRS-CMDS-1 LOOKUP CMD
950	9CB3	DD239C	S1	CMP CMDS,X
960	9CB6	D00E		BNE S2
970	9CB8	8520		STA SAVCMD SAVE CMD LETTER
980	9CBA	8A		TXA
990	9CBB	0A		ASL A DOUBLE THE VALUE
1000	9CBC	AA		TAX
1010	9CBD	BD319C		LDA ADRS,X BRANCH ENTRY
1020	9CC0	48		PHA
1030	9CC1	BD329C		LDA ADRS+1,X
1040	9CC4	48		PHA
1050	9CC5	60		RTS GO DO IT
1060	9CC6	CA	S2	DEX

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1070 10CC7 10EA          BPL S1 KEEP SRCHNG
1080 9CC9 4CD19D       JMP ERRSYN   UNRECOGNIZED CMD
1090 9CCC 38           DCMP  SEC     TMP2-TMP0
1100 9CCD A513         LDA  TMP2
1110 9CCF E511         SBC  TMP0
1120 9CD1 850B         STA  DIFF
1130 9CD3 A514         LDA  TMP2+1
1140 9CD5 E512         SBC  TMP0+1
1150 9CD7 A8           TAY   HIGH ANS IN Y
1160 9CD8 050B         ORA  DIFF   TEST FOR EQU 0
1170 9CDA 60           RTS
1180 9CDB A511         PUTP LDA  TMP0   TMP0->PCL,H
1190 9CDD 8519         STA  PCL
1200 9CDF A512         LDA  TMP0+1
1210 9CE1 851A         STA  PCH
1220 9CE3 60           RTS
1230 9CE4              ; DISPLAY MEMORY
1240 9CE4              ; TMP0 IS ADDR, A=# BYTES
1250 9CE4 8521         DM   STA  RCNT
1260 9CE6 A000         LDY  #0
1270 9CE8 206E9E       DM1  JSR  SPACE
1280 9CEB B111         LDA  (TMP0),Y
1290 9CED 20469E       JSR  WROB
1300 9CF0 20229D       JSR  INCTMP
1310 9CF3 C621         DEC  RCNT
1320 9CF5 D0F1         BNE  DM1
1330 9CF7 60           RTS
1340 9CF8              ; READ, STORE BYTE IF NOT SPACE AND RCNT NOT 0
1350 9CF8 20929E       BYTE JSR  RDOE
1360 9CFB 900F         BCC  BY3 WAS SPACE
1370 9CFD A200         LDX  #0
1380 9CFF 8111         STA  (TMP0,X) SAVE IT
1390 9D01 C111         CMP  (TMP0,X) SEE IF VALID
1400 9D03 F007         BEQ  BY3
1410 9D05 A93F         ERROPR LDA #'? ERROR
1420 9D07 204B90       JSR  PRCHAR
1430 9D0A D090         BNE  START
1440 9D0C 20229D       BY3  JSR  INCTMP NXT BYTE
1450 9D0F C621         DEC  RCNT
1460 9D11 60           RTS
1470 9D12 A91B         SETR LDA  #FLGS ACCESS REGS
1480 9D14 8511         STA  TMP0
1490 9D16 A900         LDA  #0
1500 9D18 8512         STA  TMP0+1
1510 9D1A A905         LDA  #5   POINT TO SP
1520 9D1C 60           RTS
1530 9D1D A90D         CRLF  LDA  #0D
1540 9D1F 4C4B90       JMP  PRCHAR
1550 9D22              ; INC TMP0,1 BY 1
1560 9D22 E611         INCTMP INC  TMP0
1570 9D24 D006         BNE  SETWR
1580 9D26 E612         INC  TMP0+1
1590 9D28 D002         BNE  SETWR
1600 9D2A E60A         INC  WRAP  POINTER WRAPPED.....
1610 9D2C 60           SETWR RTS
1620 9D2D A909         DSPUGH LDA  #MNOSYN   BAD FORMAT
1630 9D2F 4C20A1       JMP  DPYXIT
1640 9D32 201D9D       DSPLYR JSR  CRLF
1650 9D35 206B9E       JSR  SPAC2
1660 9D38 A90A         LDA  #MNOREG   BANNER
1670 9D3A 2038A1       JSR  DPYMSG
1680 9D3D A93B         LDA  #';
1690 9D3F 204B90       JSR  PRCHAR
1700 9D42 203D9E       JSR  WRPC
1710 9D45 20129D       JSR  SETR
1720 9D48 20E49C       JSR  DM

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1730 9D4B F03C      BEQ  DSP2
1740 9D4D 20CFFF    DPLYM  JSR  RDSCRN
1750 9D50 C920      CMP  #'      SPACE?
1760 9D52 F007      BEQ  DPLYC    YES
1770 9D54 C90D      CMP  #50D    CR?
1780 9D56 D0D5      BNE  DSPUGH   NO, BAD
1790 9D58 4C679D    JMP  DPLYD    SHOW 8 BYTES MORE
1800 9D5B 20839E    DPLYC  JSR  RDOA    READ START ADDR
1810 9D5E 90CD      BCC  DSPUGH   MUST BE PRESENT
1820 9D60 20CFFF    JSR  RDSCRN
1830 9D63 C90D      CMP  #50D    CR?
1840 9D65 D00F      BNE  DPLYA    NO
1850 9D67 18        DPLYD  CLC      YES, GET 8 BYTES
1860 9D68 A511      LDA  TMP0     COMPUTE ADDR
1870 9D6A 6907      ADC  #7
1880 9D6C 8513      STA  TMP2
1890 9D6E A512      LDA  TMP0+1
1900 9D70 6900      ADC  #0
1910 9D72 8514      STA  TMP2+1
1920 9D74 500B      BVC  DPLYB    BR'S EXCEPT FOR 8 BYTES BEFORE SCREEN!!!!
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1930 9D76 20739E    DPLYA  JSR  T2T2    MOVE TO TMP2
1940 9D79 20839E    JSR  RDOA    READ END ADDR
1950 9D7C 9053      BCC  ERRSYN  MUST BE PRESENT
1960 9D7E 20739E    JSR  T2T2    SA TO 0, EA TO 2
1970 9D81 A90B      DPLYB  LDA  #MNOHDR  MEM BANNER
1980 9D83 2031A1    JSR  DPYMCR
1990 9D86 202AF3    DSP1   JSR  BSTSTP  STOP HIT?
2000 9D89 F043      DSP2   BEQ  BEQS1  YES
2010 9D8B A60A      LDX  WRAP    STOP ON WRAP
2020 9D8D D03F      BNE  BEQS1
2030 9D8F 20CC9C    JSR  DCMP    DONE?
2040 9D92 903A      BCC  BEQS1
2050 9D94 201D9D    JSR  CRLF    NEW LINE
2060 9D97 A93A      LDA  #' :
2070 9D99 204B90    JSR  PRCHAR
2080 9D9C A511      LDA  TMP0     SAVE OLD PTR
2090 9D9E 8515      STA  TMP4
2100 9DA0 A512      LDA  TMP0+1
2110 9DA2 8516      STA  TMP4+1
2120 9DA4 20399E    JSR  WROA    CURRENT MEM ADR
2130 9DA7 A908      LDA  #8
2140 9DA9 20E49C    JSR  DM      DISPLAY, STEP
2150 9DAC A9AB      LDA  #128+'+  FANCY CHAR DISPLAY
2160 9DAE 204B90    JSR  PRCHAR
2170 9DB1 A000      LDY  #0
2180 9DB3 B115      SHOW  LDA  (TMP4),Y  GET THE CONTENTS OF THE CELL
2190 9DB5 AA        TAX
2200 9DB6 297F      AND  #57F     MAKE NORMAL CODE
2210 9DB8 C920      CMP  #520     CHECK LEGAL RANGE
2220 9DBA 1002      BPL  OKCHAR
2230 9DBC A2C0      LDX  #128+'@  PRINT THIS INSTEAD
2240 9DBE 8A        OKCHAR  TXA
2250 9DBF 204B90    JSR  PRCHAR
2260 9DC2 C8        INY
2270 9DC3 C008      CPY  #8       SHOW 8 BYTES
2280 9DC5 D0EC      BNE  SHOW
2290 9DC7 A9B3      LDA  #128+'3  FANCY BORDER
2300 9DC9 204B90    JSR  PRCHAR
2310 9DCC D0B8      BNE  DSP1     NEXT ROW
2320 9DCE 4C9C9C    BEQS1  JMP  START
2330 9DD1 A909      ERRSYN  LDA  #MNOSYN
2340 9DD3 4C20A1    JMP  DPYXIT
2350 9DD6          ; ALTER REGS
2360 9DD6 20839E    ALTR   JSR  RDOA    IF SPACE, LEAVE PC
2370 9DD9 9003      BCC  AL2

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CA27
C468

LDX WRAP STOP ON WRAP

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2380 9DD8 20DB9C JSR PUTP SET PC
2390 9DDE 20129D AL2 JSR SETR SET REGS
2400 9DE1 D007 BNE A4
2410 9DF3 ; ALTER MEM
2420 9DE3 20839E ALTM JSR RDOA READ MEM ADDR
2430 9DE6 90E9 BCC ERRSYN BAD
2440 9DE8 A908 LDA #8
2450 9DEA 8521 A4 STA RCNT
2460 9DEC 20C09E A5 JSR RDOC
2470 9DEF 20F89C JSR BYTE
2480 9DF2 D0F8 BNE A5 MORE
2490 9DF4 F0D8 A9 BEQ BEQS1
2500 9DF6 20CFFF GO JSR RDSCRN
2510 9DF9 C90D CMP #50D
2520 9DFB F023 BEQ G1 IF CR, EXIT
2530 9DFD A211 LDX #511 GA: GO TO $1160
2540 9DFF A060 LDY #560 (ASSEMBLER)
2550 9E01 C941 CMP #'A
2560 9E03 F008 BEQ GOSPEC
2570 9E05 A270 LDX #570 GE: GO TO $7000
2580 9E07 A000 LDY #500 (EDITOR)
2590 9E09 C945 CMP #'E
2600 9E0B D007 BNE GOSP
2610 9E0D 861A GOSPEC STX PCH
2620 9E0F 8419 STY PCL
2630 9E11 4C209E JMP G1 - BEQ G1 (UNC.)
2640 9E14 C920 GOSP CMP #' MUST BE SPACE
2650 9E16 D0B9 BNE ERRSYN
2660 9E18 20839E JSR RDOA GET TARGET
2670 9E1B 9003 BCC G1
2680 9E1D 20DB9C JSR PUTP UPDATE PC
2690 9E20 A61F G1 LDX SP RESTORE HIM
2700 9E22 9A TXS
2710 9E23 A51A LDA PCH
2720 9E25 48 PHA
2730 9E26 A519 LDA PCL
2740 9E28 48 PHA
2750 9E29 A51B LDA FLGS
2760 9E2B 48 PHA
2770 9E2C A51C LDA ACC
2780 9E2E A61D LDX XR
2790 9E30 A41E LDY YR
2800 9E32 40 RTI
2810 9E33 A61F EXIT LDX SP
2820 9E35 9A TXS
2830 9E36 4C8BC3 JMP BSWARM RESTART BASIC
2840 9E39 ; WRITE WORD FROM TMP'S
2850 9E39 A201 WROA LDX #1 FROM TMP0
2860 9E3B D002 BNE WROA1
2870 9E3D A209 WRPC LDX #9
2880 9E3F B511 WROA1 LDA TMP0,X
2890 9E41 20469E JSR WROB
2900 9E44 B510 LDA TMP0-1,X
2910 9E46 ; FALL INTO.....
2920 9E46 48 WROB PHA WRITE AC AS TWO HEX CHARS
2930 9E47 4A LSR A
2940 9E48 4A LSR A
2950 9E49 4A LSR A
2960 9E4A 4A LSR A
2970 9E4B 205D9E JSR PRHEX CONVERT
2980 9E4E 68 PLA
2990 9E4F 290F AND #50F
3000 9E51 4C5D9E JMP PRHEX CONVERT 2ND HEX
3010 9E54 ; AND FALL INTO.....
3020 9E54 48 WRTWO PHA WRITE X THEN A
3030 9E55 8A TXA

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BEQ GOSPEC
 LDX #560
 CMP #10

GA: GO TO \$6000

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3040 9E56 204B90 JSR PRCHAR
3050 9E59 68 PLA
3060 9E5A 4C4B90 JMP PRCHAR
3070 9E5D 18 PRHEX CLC
3080 9E5E 6906 ADC #6
3090 9E60 69F0 ADC #5F0
3100 9E62 9002 BCC ASC1
3110 9E64 6906 ADC #6
3120 9E66 693A ASC1 ADC #53A
3130 9E68 4C4B90 JMP PRCHAR
3140 9E6B 206E9E SPAC2 JSR SPACE
3150 9E6E A920 SPACE LDA #' SPACE....
3160 9E70 4C4B90 JMP PRCHAR
3170 9E73 A202 T2T2 LDX #2 SWAP TMP0,2
3180 9E75 B510 T2T21 LDA TMP0-1,X
3190 9E77 48 PHA
3200 9E78 B512 LDA TMP2-1,X
3210 9E7A 9510 STA TMP0-1,X
3220 9E7C 68 PLA
3230 9E7D 9512 STA TMP2-1,X
3240 9E7F CA DEX
3250 9E80 D0F3 BNE T2T21
3260 9E82 60 RTS
3270 9E83 ; READ HEX ADDR, RETURN LO IN TMP0
3280 9E83 ; HI IN TMP0+1
3290 9E83 ; SET CY=1
3300 9E83 ; IF SPACE, SET CY=0
3310 9E83 20929E RDOA JSR RDOB
3320 9E86 9002 BCC RDOA2
3330 9E88 8512 STA TMP0+1
3340 9E8A 20929E RDOA2 JSR RDOB
3350 9E8D 9002 BCC RDEXIT QUIT ON SPACE
3360 9E8F 8511 STA TMP0
3370 9E91 60 RDEXIT RTS
3380 9E92 ;
3390 9E92 ; READ HEX BYTE TO A. SET CY,
3400 9E92 ; MAKE CY=0 IF SPACE
3410 9E92 ;
3420 9E92 20C09E RDOB JSR RDOC READ THE CHAR
3430 9E95 C920 CMP #' SPACE..
3440 9E97 D009 BNE RDOB2
3450 9E99 20C09E JSR RDOC READ THE NEXT
3460 9E9C C920 CMP #' SPACE..
3470 9E9E D00E BNE RDOB3
3480 9EA0 18 CLC IT WAS SPACE
3490 9EA1 60 RTS
3500 9EA2 20B59E RDOB2 JSR HEXIT MAKE HEX
3510 9EA5 0A ASL A
3520 9EA6 0A ASL A
3530 9EA7 0A ASL A
3540 9EA8 0A ASL A
3550 9EA9 850F STA ACMD
3560 9EAB 20C09E JSR RDOC GET THE 2ND
3570 9EAE 20B59E RDOB3 JSR HEXIT
3580 9EB1 050F ORA ACMD NOW IN A BYTE
3590 9EB3 38 SEC
3600 9EB4 60 RTS
3610 9EB5 C93A HEXIT CMP #':
3620 9EB7 08 PHP SAVE THE CMP
3630 9EB8 290F AND #50F MASK IT
3640 9EBA 28 PLP
3650 9EBB 9002 BCC HEX09 IN 0-9
3660 9EBD 6908 ADC #8 WAS A-F
3670 9EBF 60 HEX09 RTS
3680 9EC0 20CFFF RDOC JSR RDSCRN GET A CHAR
3690 9EC3 C90D CMP #50D IS IT CR?

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3700 9EC5 D0F8      BNE HEX09      NOT, RETURN IT
3710 9EC7 4C9C9C    JMP START
3720 9ECA A900      LDE            LDA #0
3730 9ECC 85EE      STA FNLEN
3740 9ECE 85FA      STA FNADR+1
3750 9ED0 85F7      STA BSBSL
3760 9ED2 85F8      STA BSBSH
3770 9ED4 853C      STA REPFLG
3780 9ED6 A923      LDA #FNAME
3790 9ED8 85F9      STA FNADR
3800 9EDA 20C09E    JSR RDOC      CHAR AFTER CMD
3810 9EDD C952      CMP #'R      REPLACE?
3820 9EDF D007      BNE RDDEV    NO
3830 9EE1 A901      LDA #1      YES
3840 9EE3 853C      STA REPFLG
3850 9EE5 20C09E    JSR RDOC      SKIP NEXT BYTE
3860 9EE8 20929E    RDDEV        JSR RDOB      GET DEVNO
3870 9EEB 85F1      STA DEVNO
3880 9EED 20CFFF      JSR RDSCRN
3890 9EF0 C90D      CMP #0D     CR?
3900 9EF2 F078      BEQ L3      SEE IF ITS ENUF
3910 9EF4 A200      LDX #0      INITIALIZE INDEX
3920 9EF6 20CFFF      RD2         JSR RDSCRN    GET THE NAME
3930 9EF9 C92C      CMP #',
3940 9EFB D003      BNE PPP4
3950 9EFD 4C68A0    JMP L4
3960 9F00 C90D      PPP4        CMP #0D     CR ?
3970 9F02 D05D      BNE PPP5    NO
3980 9F04 A520      LDA SAVCMD  LAST CMD
3990 9F06 C945      CMP #'E     WAS IT ERASE?
4000 9F08 D00D      BNE SVX     NO
4010 9F0A A5F1      LDA DEVNO
4020 9F0C 20DEA0    JSR VALIDT  CHECK IT
4030 9F0F 200F90    DODEL       JSR FDELET  ERASE IT
4040 9F12 20B29F    JSR FCHK
4050 9F15 F0F8      BEQ DODEL   (UNC) RETRY IF DISK CHANGE
4060 9F17 C953      SVX         CMP #'S     WAS IT SAVE?
4070 9F19 D051      BNE L3     NO.
4080 9F1B A5F1      LDA DEVNO  YES, CHECK TYPE
4090 9F1D 29F0      AND #0F0
4100 9F1F C9A0      CMP #FASM  ASM SOURCE?
4110 9F21 D012      BNE SVX2   NO.
4120 9F23 ACCA12    LDY $12CA  YES, GET START
4130 9F26 AEC912    LDX $12C9
4140 9F29 2081A0    JSR PUTBSL
4150 9F2C ACFF12    LDY $12FF  GET END PTR
4160 9F2F AEFE12    LDX $12FE
4170 9F32 4CBCA0    JMP PUTEAL SET END PTR
4180 9F35 C9F0      SVX2        CMP #FBASIC BASIC SOURCE?
4190 9F37 D00E      BNE SVX3   NO.
4200 9F39 A200      LDX #0     YES.
4210 9F3B A004      LDY #04    SAVE FROM 0400
4220 9F3D 2081A0    JSR PUTBSL
4230 9F40 A67C      LDX VARTAB END OF BASIC TEXT
4240 9F42 A47D      LDY VARTAB+1
4250 9F44 4CBCA0    JMP PUTEAL SET END PTR
4260 9F47 C9C0      SVX3        CMP #FSYMBL SYMBOL TABLE?
4270 9F49 D021      BNE L3     NO, NOTHING SPECIAL
4280 9F4B AC0B03    LDY $030B BEGIN OF SYMB.
4290 9F4E AE0A03    LDX $030A
4300 9F51 2081A0    JSR PUTBSL
4310 9F54 AE0B12    LDX $12CB  END OF ASS STORAGE
4320 9F57 ACCC12    LDY $12CC
4330 9F5A E8        INX        POINT PAST BY ONE
4340 9F5B D001      BNE SVX1
4350 9F5D C8        INY

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4360 9F5E 4CBCA0 SVX1      JMP PUTEAL SET END PTR
4370 9F61 E010  PPP5      CPX #DENAML MAX LEN
4380 9F63 F091              BEQ RD2
4390 9F65 9523              STA FNAME,X
4400 9F67 E6EE              INC FNLEN
4410 9F69 E8                INX
4420 9F6A D08A              BNE RD2
4430 9F6C A520      L3      LDA SAVCMD      OLD CMD
4440 9F6E C94C              CMP #'L          IS IT A LOAD?
4450 9F70 F022              BEQ LD2          LOADS OK.
4460 9F72 C952              CMP #'R          RUN??
4470 9F74 F01E              BEQ LD2          LIKE LOAD
4480 9F76 C956              CMP #'V          VERIFY??
4490 9F78 D004              BNE L3A         NO
4500 9F7A A201              LDX #1          SET VERIFY FLAG
4510 9F7C D018              BNE LD2A
4520 9F7E C94E      L3A      CMP #'N          DIRECTORY LIST?
4530 9F80 F003              BEQ L3C         NO, YOU LOSE.
4540 9F82 4CD19D           JMP ERRSYN
4550 9F85 20DEA0  L3C      JSR VALIDT      CHECK REQUEST
4560 9F88 A900              LDA #0          GIVE LONG FORM
4570 9F8A 853D              STA LSTFLG     OF DIR LIST
4580 9F8C 202190  DOLIST   JSR FDLIST      SHOW IT
4590 9F8F 20B29F           JSR FCHK
4600 9F92 F0F8              BEQ DOLIST (UNC) RETRY IF DISK CHANGE
4610 9F94 A200      LD2      LDX #0          SET LOAD FLAG
4620 9F96 8E0B02  LD2A     STX VERCK
4630 9F99 A5F1              LDA DEVNO
4640 9F9B D003              BNE LD2B       ZERO IS BAD
4650 9F9D 4C1EA1           JMP BADDEV
4660 9FA0 29F0      LD2B     AND #5F0       CHECK HIGH DIGIT
4670 9FA2 D003              BNE *+5
4680 9FA4 4C2DA0           JMP TPLOAD     ZERO IS TAPE
4690 9FA7 20DEA0           JSR VALIDT     CHECK RANGE
4700 9FAA 200690  DOREAD   JSR FREAD      READ IT IN
4710 9FAD 20B29F           JSR FCHK
4720 9FB0 F0F8              BEQ DOREAD (UNC) RETRY IF DISK CHANGE
4730 9FB2              ;
4740 9FB2 A53E      FCHK     LDA RCODE      CHECK FILSYS RETURN CODE
4750 9FB4 C90A              CMP #10        DISK CHANGE?
4760 9FB6 F074              BEQ RETRN      YES: RETURN EQ
4770 9FB8 68                PLA            ELSE PURGE RETURN ADDR
4780 9FB9 68                PLA
4790 9FBA A53E              LDA RCODE
4800 9FBC F003              BEQ LDSHOW     OK
4810 9FBE 4C20A1           JMP DPYXIT     WRITE ERR MSG AND QUIT
4820 9FC1              ;
4830 9FC1              ;
4840 9FC1              ;
4850 9FC1 A520      LDSHOW   LDA SAVCMD
4860 9FC3 C94C              CMP #'L          LOAD?
4870 9FC5 F018              BEQ LSHOW
4880 9FC7 C952              CMP #'R          RUN??
4890 9FC9 F014              BEQ LSHOW      DO LIKE LOAD
4900 9FCB C953              CMP #'S          SAVE?
4910 9FCD F00C              BEQ SVSHOW     YES
4920 9FCF C945              CMP #'E          ERASE?
4930 9FD1 D005              BNE LDXT       NO, IGNORE NAME
4940 9FD3 A90D              LDA #MNOERA    "ERASED:"
4950 9FD5 2074A1  LDSSH   JSR SHOWNM
4960 9FD8 4C9C9C  LDXT     JMP START
4970 9FDE A90F      SVSHOW   LDA #MNOSVD    "SAVED:"
4980 9FDD D0F6              BNE LDSSH
4990 9FDF A90E      LSHOW   LDA #MNOLDD    "LOADED:"
5000 9FE1 2074A1           JSR SHOWNM
5010 9FE4 A520              LDA SAVCMD     LAST CMD

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5020 9FE6 C952      CMP #R      RUN??
5030 9FE8 D003      BNE LDFIX  NO,LOAD
5040 9FEA 6C3A00    JMP (CMEMAD) GO GO GO
5050 9FED          ;
5060 9FED          ; DO SPECIAL LOAD FIXUPS
5070 9FED          ;
5080 9FED A5F1      LDFIX  LDA DEVNO
5090 9FEF 29F0      AND #F0
5100 9FF1 C9A0      CMP #FASM   ASSEMBLER
5110 9FF3 D00B      BNE LDFIX2
5120 9FF5 2022A0    JSR ADDAS  COMPUTE END ADDR
5130 9FF8 8EFE12    STX $12FE  STORE IN $12FE
5140 9FFB 8DFF12    STA $12FF
5150 9FFE D065      BNE PPP7
5160 A000 C9B0      LDFIX2 CMP #FBASIC BASIC
5170 A002 D009      BNE LDFIX3
5180 A004 2022A0    JSR ADDAS  COMPUTE END ADDR
5190 A007 867C      STX VARTAB STORE IN VARTAB
5200 A009 857D      STA VARTAB+1
5210 A00B D058      BNE PPP7
5220 A00D C9C0      LDFIX3 CMP #FSYMBL CYMBOL TABLE
5230 A00F D054      BNE PPP7
5240 A011 A538      LDA MEMAD  PUT START ADDR IN 12FA
5250 A013 8DFA12    STA $12FA
5260 A016 A539      LDA MEMAD+1
5270 A018 8DFB12    STA $12FB
5280 A01B A918      LDA #F18   PATCH ASSEMBLER TO USE IT
5290 A01D 8D5508    STA $0855
5300 A020 D043      BNE PPP7
5310 A022          ;
5320 A022          ; X,A=CMEMAD+MEMSIZ
5330 A022          ;
5340 A022 18        ADDAS  CLC
5350 A023 A53A      LDA CMEMAD
5360 A025 6535      ADC MEMSIZ
5370 A027 AA        TAX
5380 A028 A53B      LDA CMEMAD+1
5390 A02A 6536      ADC MEMSIZ+1
5400 A02C 60        RETRN  RTS
5410 A02D          ;
5420 A02D A5F1      TPLOAD LDA DEVNO  CHECK DEVICE
5430 A02F C903      CMP #3     LEGAL??
5440 A031 9003      BCC TP2   YES
5450 A033 4C1EA1    JMP BADDEV NO.
5460 A036 2067F6    TP2      JSR BSZZZ
5470 A039 203BF8    JSR CSTE1
5480 A03C 20FFF3    JSR LD300
5490 A03F A5EE      LDA FNLEN  NAME LENGTH
5500 A041 F00A      BEQ LD150
5510 A043 2095F4    JSR BSFAF  FIND FILE W. NAME
5520 A046 D00A      BNE LD170  FOUND..
5530 A048 A90C      LD10     LDA #MNOTAP BAD..
5540 A04A 4C20A1    JMP DPYXIT TAPE
5550 A04D 20AEF5    LD150    JSR BSFAH  FIND 1ST FILE
5560 A050 F0F6      BEQ LD10  BAD...
5570 A052 204DF6    LD170    JSR LDAD2  MOVE MEM ADR FROM HEADER (E3,E4->F7,F8)
5580 A055 2022F4    JSR LD400  SAY 'LOADING'..
5590 A058 208AF8    JSR BSTRD  READ IT
5600 A05B 2013F9    JSR TWAIT
5610 A05E AD0C02    LDA BSSTAT STATUS
5620 A061 2910      AND #SPERR ERRORS?
5630 A063 D0E3      BNE LD10  YES
5640 A065 4C9C9C    PPP7     JMP START
5650 A068 20839E    L4       JSR RDOA  PARSE REST OF CMD
5660 A06B A611      LDX TMP0  GET 0,1,2 HEX ADDRS
5670 A06D A412      LDY TMP0+1

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5680 A06F 2081A0 JSR PUTBSL
5690 A072 20CFFF L5 JSR RDSCRN
5700 A075 C90D CMP #0D CR??
5710 A077 D00D BNE L5A END CMD
5720 A079 4C6C9F JMP L3
5730 A07C A909 LSYN LDA #MNOSYN
5740 A07E 4C20A1 JMP DPYXIT
5750 A081 86F7 PUTBSL STX BSBSL SET START ADR
5760 A083 84F8 STY BSBSH
5770 A085 60 RTS
5780 A086 ;
5790 A086 C92C L5A CMP #' , SAW ADDR, ...
5800 A088 D0F2 BNE LSYN BAD..
5810 A08A 20839E JSR RDOA NEXT ADDR
5820 A08D A611 LDX TMP0
5830 A08F A412 LDY TMP0+1
5840 A091 84E6 STY BSEAH
5850 A093 86E5 STX BSEAL
5860 A095 20CFFF JSR RDSCRN DONE?
5870 A098 C90D CMP #0D CR?
5880 A09A F024 BEQ PUTS YES
5890 A09C C92C CMP #' , NO
5900 A09E D0DC BNE LSYN
5910 A0A0 20DEA0 JSR VALIDT WONT RETURN IF TAPE
5920 A0A3 20839E JSR RDOA LOADIT ADDR
5930 A0A6 A611 LDX TMP0
5940 A0A8 A412 LDY TMP0+1
5950 A0AA 8638 STX MEMAD
5960 A0AC 8439 STY MEMAD+1 TRUE ADDRESS LATER
5970 A0AE A520 LDA SAVCMD
5980 A0B0 C953 CMP #'S SAVE?
5990 A0B2 D0C8 BNE LSYN NO, BAAD
6000 A0B4 200C90 DOWRTD JSR FWRITD WRITE, OFFSET
6010 A0B7 20B29F JSR FCHK
6020 A0BA F0F8 BEQ DOWRTD (UNC) RETRY IF DISK CHANGE
6030 A0BC 84E6 PUTEAL STY BSEAH
6040 A0BE 86E5 STX BSEAL
6050 A0C0 A520 PUTS LDA SAVCMD OLD CMD
6060 A0C2 C953 CMP #'S SAVE?
6070 A0C4 D0B6 BNE LSYN NO..
6080 A0C6 A5F1 LDA DEVNO ITS SAVE
6090 A0C8 29F0 AND #0F0 CHECK HI DIGIT
6100 A0CA D007 BNE MYSAVE NON-ZERO IS DISK
6110 A0CC AA TAX ZERO..
6120 A0CD 20B1F6 JSR BSSAVE TAPE SAVE
6130 A0D0 4C9C9C P3A JMP START
6140 A0D3 20DEA0 MYSAVE JSR VALIDT
6150 A0D6 200990 DOWRIT JSR FWRITE
6160 A0D9 20B29F JSR FCHK CHECK RCODE
6170 A0DC F0F8 BEQ DOWRIT (UNC) RETRY IF DISK CHANGE
6180 A0DE ;
6190 A0DE ; VALIDATE DEVICE NO IN DEVNO
6200 A0DE ; RETURNS IF OKAY, ELSE TO START
6210 A0DE A5F1 VALIDT LDA DEVNO GET DEVNO
6220 A0E0 AA TAX
6230 A0E1 29F0 AND #0F0
6240 A0E3 F039 BEQ BADDEV ZERO IS TAPE ONLY
6250 A0E5 8533 STA FTYPE
6260 A0E7 8A TXA
6270 A0E8 290F AND #0F
6280 A0EA 8534 STA DRIVE
6290 A0EC F030 BEQ BADDEV CANT BE ZERO
6300 A0EE A920 LDA #' PAD BLANK
6310 A0F0 A6EE LDX FNLEN CURRENT LENGTH
6320 A0F2 D007 BNE V3 ALL BLANK?
6330 A0F4 A02A LDY #'* YES

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6340 A0F6 8423          STY FNAME  FORCE WILDCARD
6350 A0F8 8422          STY STARED SET STAR FLAG
6360 A0FA E8            INX          LENGTH NOW ONE
6370 A0FB E010         V3      CPX #DENAML  DONE?
6380 A0FD 1005         BPL V4      YES
6390 A0FF 9523         STA FNAME,X  PAD A BLANK
6400 A101 E8            INX
6410 A102 D0F7         BNE V3
6420 A104 A5F7         V4      LDA BSBSL  MOVE TO ADDR FOR DISK
6430 A106 8538         STA MEMAD
6440 A108 853A         STA CMEMAD
6450 A10A A5F8         LDA BSBSH
6460 A10C 8539         STA MEMAD+1
6470 A10E 853B         STA CMEMAD+1
6480 A110 38            SEC
6490 A111 A5E5         LDA BSEAL  ENDL
6500 A113 E5F7         SBC BSBSL  ST L
6510 A115 8535         STA MEMSIZ SAVE LENGTH
6520 A117 A5E6         LDA BSEAH
6530 A119 E5F8         SBC BSBSH
6540 A11B 8536         STA MEMSIZ+1  FOR WRITE...
6550 A11D 60            RTS
6560 A11E A908         BADDEV LDA #MNOLDN  ILLEGAL DEV NO
6570 A120 C901         DPYXIT CMP #1      DISK ERROR?
6580 A122 D007         BNE DPYXT1 NO
6590 A124 AE3DAF        LDX DSKERR  WHICH ONE?
6600 A127 E00B         CPX #11     ILG DEV?
6610 A129 F0F3         BEQ BADDEV YES
6620 A12B 2054A1        DPYXT1 JSR DPYMW  SHOW WITH "BAD"
6630 A12E 4C9C9C        ABRT     JMP START  ABORT
6640 A131                ;
6650 A131                ;  DISPLAY MSG USING OFFSET IN A
6660 A131                ;  PRECEDED BY CRLF.....
6670 A131                ;
6680 A131 48            DPYMCR PHA
6690 A132 A90D            LDA #0D
6700 A134 204B90        JSR PRCHAR
6710 A137 68            PLA
6720 A138                ;
6730 A138                ;  FALL INTO DPYMSG
6740 A138                ;
6750 A138                ;  DISPLAY MSG TEXT FROM MSGLIST
6760 A138                ;  USING MSG NUMBER IN A
6770 A138                ;
6780 A138 A8            DPYMSG TAY
6790 A139 B9139C        LDA MPTBEG,Y
6800 A13C 18            CLC
6810 A13D 6920          ADC #MSGLST*256/256
6820 A13F 8517          STA MSGPTR
6830 A141 A900          LDA #0
6840 A143 699B          ADC #MSGLST/256
6850 A145 8518          STA MSGPTR+1
6860 A147                ;
6870 A147                ;  FALL INTO WRMSG
6880 A147                ;
6890 A147                ;  DISPLAY MSG POINTED TO BY MSGPTR ($17,18)
6900 A147                ;  UNTIL ZERO BYTE
6910 A147                ;  RETURNS WITH Z SET
6920 A147                ;
6930 A147 A000          WRMSG  LDY #0
6940 A149 B117          WRMS1  LDA (MSGPTR),Y  GET CHAR
6950 A14B F006          BEQ WRMS2  DONE?
6960 A14D 204B90        JSR PRCHAR  NO
6970 A150 C8            INY
6980 A151 D0F6          BNE WRMS1
6990 A153 60            WRMS2  RTS

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7000 A154 ;
7010 A154 ; DISPLAY MESSAGE WITH HEADER "BAD: "
7020 A154 ; PASS MESSAGE NUMBER IN A
7030 A154 ;
7040 A154 48 DPYMW PHA
7050 A155 A900 LDA #MNOBAD
7060 A157 2031A1 JSR DPYMCR
7070 A15A 68 PLA
7080 A15B 48 PHA
7090 A15C 2038A1 JSR DPYMSG SHOW MSG
7100 A15F 68 PLA MSG NO
7110 A160 C901 CMP #1 DISK ERROR?
7120 A162 D006 BNE DPYMW1 NO
7130 A164 AD3DAF LDA DSKERR YES, SHOW IT
7140 A167 4C4290 JMP PRBYTE IN HEX
7150 A16A C906 DPYMW1 CMP #6 DIR ERROR???
7160 A16C D0E5 BNE WRMS2 NO
7170 A16E AD42AF LDA DIRCOD YES, SHOW DIRCOD
7180 A171 4C4290 JMP PRBYTE IN HEX
7190 A174 ;
7200 A174 ;
7210 A174 2031A1 SHOWNM JSR DPYMCR A REG HAS MSGNO
7220 A177 A5F1 LDA DEVNO
7230 A179 204290 JSR PRBYTE SHOW UNIT #
7240 A17C A92C LDA #',
7250 A17E 204B90 JSR PRCHAR
7260 A181 A533 LDA FNAME+DENAML SAVE THIS
7270 A183 48 PHA LAST BYTE
7280 A184 A900 LDA #0 WHILE WE PATCH
7290 A186 8533 STA FNAME+DENAML HIM TO ZERO
7300 A188 A923 LDA #FNAME*256/256
7310 A18A 8517 STA MSGPTR PRINT MSG FROM
7320 A18C A900 LDA #FNAME/256 FNAME AREA
7330 A18E 8518 STA MSGPTR+1
7340 A190 2047A1 JSR WRMSG
7350 A193 68 PLA
7360 A194 8533 STA FNAME+DENAML RESTORED....
7370 A196 60 RTS
7380 A197 20CFFF SIMPLE JSR RDSCRN
7390 A19A C90D CMP #0D CR?
7400 A19C F00A BEQ SIMP1 YES
7410 A19E C920 CMP #' BLANK?
7420 A1A0 F003 BEQ SIMP2 YES
7430 A1A2 4CD19D JMP ERRSYN NO
7440 A1A5 20839E SIMP2 JSR RDOA READ ADDRESS
7450 A1A8 60 SIMP1 RTS
7460 A1A9 2097A1 DASM JSR SIMPLE PARSE IT
7470 A1AC 200390 JSR JDSASM DISASM HIM
7480 A1AF 4C9C9C JMP START
7490 A1B2 20CFFF OUTP JSR RDSCRN READ CR IN
7500 A1B5 205A90 JSR PRTENB ENABLE PRINTER
7510 A1B8 4C9C9C JMP START
7520 A1BB END .END

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